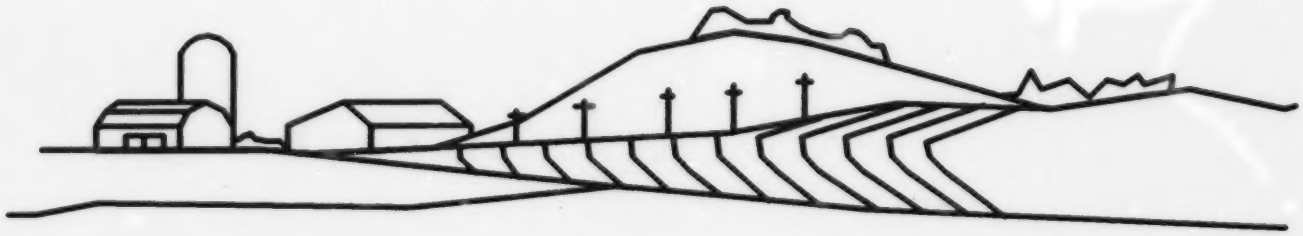
CUSTOM RATES SURVEY

FERTILIZER & HERBICIDE APPLICATIONS

AND GRAIN SEEDING

1990



Alberta
AGRICULTURE
STATISTICS BRANCH
427-4011

90-06893/

PREFACE

The Custom Rate Survey is conducted for Alberta Agriculture as a cooperative effort involving the Department Statistics Branch, and Farm Business Management Branch.

The data presented in this report was obtained by contacting custom operators and dealers and thus represent actual charges. Please note that some instances may be GNR (Good Neighbor Rates) as opposed to CR (Commercial Rates). The reader should be aware that varying conditions in different areas of the province can significantly affect the rates charged.

The intent of the survey is to provide producers with additional information to help with their farm management decisions. The quality of data is dependent on the cooperation received by producers as well as commercial custom operators. We would like to thank all those who were so willing in helping to provide information. If you are involved in any custom operations and have not been contacted but wish to contribute please call the following numbers or contact your local District Agriculturist.

Alberta Agriculture
Statistics Branch
Edmonton, Alberta
403-427-4011

Alberta Agriculture
Farm Business Management Branch
Olds, Alberta
403-556-4240

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I.D. 1
LEGEND
Regional Offices
Region 1 - Lethbridge
2 - Airdrie
3 - Red Deer
4 - Vermilion
5 - Barrhead
6 - Fairview
Edmonton
Calgary

LEGEND

OPERATIONS

CS - Crop Seeding
FA - Fertilizer Application
HA - Herbicide Application

PRODUCT FORM

A - Anhydrous Ammonia
G - Granular
L - Liquid

APPLICATOR

PT - Pull Type
TM - Truck Mount
FL - Floater
AS - Air Seeder
FW - Fixed Wing
H - Helicopter

NOTES

CULT - Cultivator
HERB - Herbicides
FERT - Fertilizer
GNR - Good Neighbor Rate

CROP SEEDING 1990

REGION	COUNTY	OPERATION	TYPE OF APPLICATOR	RENTAL COST	CUSTOM COST ($/AC)	NOTES
1	MD14	CS	FW PIPER PAWNEE		5.50	HAY OR GRASS
1	MD14	CS	FW PAWNEE BRAVE		5.00	
1	MD26	CS	PT VERSATILE HOE DRILL		6.50	
1	MD26	CS	PT HOE DRILL		6.75	W/GRANULAR FERTILIZER
1	MD26	CS	PT INTERNATIONAL DRILL		6.00	
1	MD26	CS	PT VERSATILE AIR DRILL		10.00	
1	MD9	CS	PT HOE DRILL		7.50	CEREALS & GRASS
1	MD9	CS	PT HOE DRILL		6.50	CEREALS
1	2	CS	PT HOE DRILL		6.5	W/FERTILIZER
1	2	CS	AS CONCORD	$3.50/AC		
1	4	CS	PT HOE DRILL		6.50	
1	5	CS	FL LOREL		3.50	HAY, GRASS, OR RAPESEED
1	26	CS	PT VALMAR	$1/AC		FORAGE
2	CALGARY	CS	AS FRIGSTAD		6.00	
2	ID7	CS	FW PIPER PAWNEE		3.50	GRASS OR CANOLA
2	ID7	CS	FW GRUMMAN AG-CAT		3.50	GRASS OR CANOLA
2	ID7	CS	FW CESSNA		3.25	CLOVER OR CANOLA
2	MD31	CS	AS JOHN DEERE		6.25	CEREALS
2	MD31	CS	AS JOHN DEERE		7.25	CEREALS WITH FERTILIZER

CROP SEEDING 1990

REGION	COUNTY	OPERATION	TYPE OF APPLICATOR	RENTAL COST	CUSTOM COST ($/AC)	NOTES
2	MD31	CS	FL LOREL		3.50	GRAINS, GRASSES
2	MD31	CS	FW GRUMMAN		4.00	GRASS OR CANOLA
2	MD31	CS	PT INTERNATIONAL AIR DRILL		10.00	
2	MD31	CS	AS JOHN DEERE		6.25	
2	MD31	CS	FW CESSNA AG-WAGON		3.25	CANOLA
2	MD31	CS	AS MORRIS OR FLEXICOIL		6.50	TRUCKS $1.50/AC EXTRA
2	MD31	CS	FW CESSNA AG-WAGON		7.00	GRAINS
2	MD31	CS	FW GRUMMAN AG-CAT		3.50	GRASS OR RAPESEED
2	MD31	CS	AS PRASCO		8.00	
2	MD44	CS	AS TERRIGATOR		5.00	GRASSES
2	MD44	CS	PT MELROW DRILL		10.00	
2	MD44	CS	FL LOREL		5.00	TWO PASSES WITH FERTILIZER
2	MD44	CS	FL LOREL		3.00	
2	MD44	CS	PT JOHN DEERE DRILL		6.00	TRUCKS $2/AC EXTRA
2	MD47	CS	FL TYLER		3.25	GRASS SEED & FERTILIZER
2	MD48	CS	FL LOREL		3.25	HAY, GRASS OR RAPESEED
2	MD48	CS	AS FRIGSTAD		7.00	
2	MD48	CS	AS JOHN DEERE		6.25	
2	MD48	CS	PT INTERNATIONAL DRILL		5.00	
2	16	CS	AS WILLRICH		5.75	CANOLA
2	16	CS	AS FRIGSTAD		8.50	CEREALS
2	17	CS	AS JOHN DEERE		7.00	
2	17	CS	PT JOHN DEERE DRILL		7.00	GRAINS W/FERT OR GRASSES

CROP SEEDING 1990

REGION	COUNTY	OPERATION	TYPE OF APPLICATOR	RENTAL COST	CUSTOM COST ($/AC)	NOTES
2	17	CS	DISK DRILL		6.50	WITH FERTILIZER
2	17	CS	DISK DRILL		6.00	
2	17	CS	PT JOHN DEERE DRILL		6.50	GRAINS
2	17	CS	TH TYLER		3.25	FORAGE
3	3	CS	FL LOREL		3.50	
3	3	CS	TH BARBER		3.00	
3	6	CS	AS JOHN DEERE		6.50	
3	6	CS	FL TYLER		3.25	GRASS OR CANOLA
3	14	CS	FW GRUMMAN AG-CAT		4.00	CEREALS
3	14	CS	FW GRUMMAN AG-CAT		3.40	OILSEEDS
3	14	CS	AS CONCORD 40' W/PACKERS		7.75	CULT, SEED, HARROW & PACK
3	22	CS	FL LOREL		3.25	GRASS OR CANOLA
3	22	CS	FW PIPER PAWNEE		3.25	CANOLA
3	29	CS	FW AYRES TURBO THRUSH		4.00	GRASS OR CANOLA
3	29	CS	FW PIPER PAWNEE		3.50	CANOLA
3	29	CS	FW PIPER PAWNEE		4.50	CEREALS
3	29	CS	FW AYRES TURBO THRUSH		3.50	CANOLA
3	29	CS	FW AYRES TURBO THRUSH		4.50	CEREALS
4	13	CS	AS JOHN DEERE		5.00	CEREALS
4	19	CS	AS JOHN DEERE		5.00	CEREALS OR OILSEEDS

CROP SEEDING 1990

REGION	COUNTY	OPERATION	TYPE OF APPLICATOR	RENTAL COST	CUSTOM COST ($/AC)	NOTES
4	24	CS	FW GRUMMAN AG-CAT		3.50	GRASS OR CANOLA
4	24	CS	FW GRUMMAN AG-CAT		4.50	CEREALS
4	24	CS	FW GRUMMAN AG-CAT		3.50	OILSEEDS
5	MD90	CS	FW GRUMMAN AG-CAT		4.75	CEREALS
5	MD90	CS	FW GRUMMAN AG-CAT		3.50	GRASS OR CANOLA
5	7	CS	FL LOREL		3.50	
5	25	CS	AS FLEXICOIL W/VALMAR	$3.50/AC		
5	25	CS	AS FLEXICOIL	$2.50/AC		
5	31	CS	AS JOHN DEERE		6.25	CEREALS
6	MD135	CS	FL LOREL		4.00	GRASS OR CANOLA
6	1	CS	AS FRIGSTAD		6.50	CEREALS
6	1	CS	AIR DRILL JOHN DEERE		7.00	CANOLA
6	1	CS	AS FRIGSTAD		6.50	CEREALS

FERTILIZER APPLICATION 1990

REGION	COUNTY	OPERATION	PRODUCT FORM	TYPE OF APPLICATOR	RENTAL COST	CUSTOM COST ($/AC)	NOTES
1	MD6	FA	G	PT WILLMAR		2.50	
1	MD6	FA	L	PT TYLER		2.50	
1	MD9	FA	G	PT WILLMAR	45/DAY		WITH PURCHASE OF PRODUCT
1	MD14	FA	L	TN LOREL EASY RIDER		3.25	
1	MD14	FA	L	FL TERRIGATOR		3.75	
1	MD14	FA	L	FW GRUMMAN KING CAT		3.50	2 GALLONS WATER
1	MD14	FA	L	FW GRUMMAN KING CAT		5.00	4 GALLONS WATER
1	MD14	FA	G	FW PIPER PAWNEE		5.00	
1	MD14	FA	G	TN BARBER		3.00	
1	MD14	FA	G	TN LOREL EASY RIDER		3.25	
1	MD26	FA	G,L	PT MCGREGGOR	$1/AC	3.00	WITH PURCHASE OF PRODUCT
1	MD26	FA	L	PT BANDWAGON	1.25/AC		WITH PURCHASE OF PRODUCT
1	MD26	FA	G	PT WILLMAR	$0.75/AC		WITH PURCHASE OF PRODUCT
1	MD26	FA	G	AS CONCORD		7.00	
1	MD26	FA	L	PT BANDWAGON	$0.50/AC		WITH PURCHASE OF PRODUCT
1	MD26	FA	A	PT CULTIVATOR W/KIT		6.00	
1	MD26	FA	L	PT BANDWAGON	$1.50/AC		WITH PURCHASE OF PRODUCT
1	MD26	FA	G	FL LOREL		3.25	WITH AVADEX
1	2	FA	G	PT WILLMAR	$1.50/AC		WITH PURCHASE OF PRODUCT
1	2	FA	G	PT LOREL EASY RIDER	$8/DAY	2.75	
1	2	FA	G	AS CONCORD		4.00	
1	2	FA	G	PT WILLMAR	$10/DAY		WITH PURCHASE OF PRODUCT
1	2	FA	G	FL LOREL		2.50	WITH OR WITHOUT AVADEX

FERTILIZER APPLICATION 1990

REGION	COUNTY	OPERATION	PRODUCT FORM	TYPE OF APPLICATOR	RENTAL COST	CUSTOM COST ($/AC)	NOTES
1	2	FA	G	PT BANDWAGON	$1/AC		WITH PURCHASE OF PRODUCT
1	4	FA	G	FL LOREL		3.00	
1	4	FA	L	FW THRUSH COMMANDER		4.50	5 GALLONS WATER
1	4	FA	G	AS CONCORD	$3.50/AC		
1	4	FA	G	PT WILLMAR	$0.75/AC		WITH PURCHASE OF PRODUCT
1	4	FA	L	FW THRUSH COMMANDER		3.75	3 GALLONS WATER
1	4	FA	L	TM TERRIGATOR		3.50	
1	4	FA	L	FW THRUSH COMMANDER		3.25	1 GALLON WATER
1	5	FA	G	FL EASY RIDER		2.50	WITH PURCHASE OF PRODUCT
1	5	FA	G	PT WILLMAR		2.75	
1	5	FA	L	FW PIPER PAWNEE		5.75	5 GALLONS WATER
1	5	FA	L	FW PIPER PAWNEE		3.50	1 GALLON WATER
1	5	FA	A	PT BANDICATOR	$1.50/AC		WITH PURCHASE OF PRODUCT
1	5	FA	G	FL TERRIGATOR		2.75	
1	5	FA	L	PT BANDWAGON	$0.50/AC		WITH PURCHASE OF PRODUCT
1	5	FA	L	FW PIPER PAWNEE		4.00	2 GALLONS WATER
1	8	FA	G	FL TRUCK MOUNT		3.50	
1	8	FA	L	TM GREEN DROP	$1/AC	3.50	WITH PURCHASE OF PRODUCT
1	8	FA	G	TM GREEN DROP	$1/AC	3.50	WITH PURCHASE OF PRODUCT
1	8	FA	G	PT WILLMAR		2.50	
1	8	FA	L,A	PT DOUBLE SHOOTER	$5/AC		WITH PURCHASE OF PRODUCT
1	8	FA	G,A	FL LOREL	$2-5/AC		WITH PURCHASE OF PRODUCT
1	26	FA	G	FL TERRIGATOR		3.00	

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REGION	COUNTY	OPERATION	PRODUCT FORM	TYPE OF APPLICATOR	RENTAL COST	CUSTOM COST ($/AC)	NOTES
1	26	FA	G,A	TM LOREL AIRFLOW		3.25	
1	26	FA	G	PT WILLMAR	$6/TONNE		WITH PURCHASE OF PRODUCT
1	26	FA	G	FL WILLMAR		3.25	WITH AVADEX
1	26	FA	G,L,A	PT WEST AG DOUBLE SHOOTER	$3/AC		WITH PURCHASE OF PRODUCT
1	26	FA	G	PT WILLMAR	$1/AC		WITH PURCHASE OF PRODUCT
1	26	FA	G	FL WILLMAR		3.00	
1	26	FA	L	PT VALMAR OR TYLER	$7/TONNE		WITH PURCHASE OF PRODUCT
1	26	FA	G	PT WILLMAR	$6/TONNE		WITH PURCHASE OF PRODUCT
1	26	FA	G	FL WILLMAR		3.00	
1	26	FA	G	PT WILLMAR	$4/TONNE		WITH PURCHASE OF PRODUCT
1	26	FA	G	PT WILLMAR	$0.75/AC		WITH PURCHASE OF PRODUCT
1	26	FA	L	TM WILLMAR		3.00	WITH PURCHASE OF PRODUCT
2	CALGARY	FA	G	FL LOREL		3.25	WITH AVADEX
2	CALGARY	FA	G	PT LOREL		3.50	WITH PURCHASE OF PRODUCT
2	CALGARY	FA	A	PT MCGREGGOR	$60/TONNE		WITH PURCHASE OF PRODUCT
2	CALGARY	FA	G	PT WILLMAR		3.00	WITH PURCHASE OF PRODUCT
2	CALGARY	FA	G	PT WILLMAR	$1.25/AC		
2	ID7	FA	G	FW CESSNA		3.50	
2	ID7	FA	G	FW GRUMMAN AG-CAT		3.50	
2	ID7	FA	L	FW GRUMMAN AG-CAT		3.25	1 GALLON WATER
2	MD31	FA	G	AS MORRIS		6.75	DEEP BANDING
2	MD31	FA	G	FL WILLMAR		4.50	
2	MD31	FA	G	AS JOHN DEERE		6.50	DEEP BANDING
2	MD31	FA	G	AS PRASCO		6.00	

FERTILIZER APPLICATION 1990

REGION	COUNTY	OPERATION	PRODUCT FORM	TYPE OF APPLICATOR	RENTAL COST	CUSTOM COST ($/AC)	NOTES
2	MD31	FA	G	AS JOHN DEERE		6.25	
2	MD31	FA	G	AS MORRIS OR FLEXICOIL		6.50	
2	MD31	FA	G	FL LOREL		3.00	
2	MD31	FA	G	FL LOREL		3.50	WITH PURCHASE OF PRODUCT
2	MD34	FA	G	FL WILLMAR		3.25	
2	MD34	FA	G	FL WILLMAR		3.50	
2	MD44	FA	G	FL TYLER		3.25	WITH AVADEX
2	MD44	FA	G	FL LOREL	$3/AC		WITH PURCHASE OF PRODUCT
2	MD44	FA	G,A	TH LOREL W/COLD FLOW KIT		3.50	
2	MD44	FA	A	PT MCGREGGOR	$60/TONNE		WITH PURCHASE OF PRODUCT
2	MD44	FA	G	TH LOREL	$1/AC	3.00	WITH PURCHASE OF PRODUCT
2	MD44	FA	G	PT WILLMAR	$0.50/AC		WITH PURCHASE OF PRODUCT
2	MD44	FA	G	PT WILLMAR	$1/AC		WITH PURCHASE OF PRODUCT
2	MD44	FA	L	FL TYLER		3.25	WITH AVADEX
2	MD44	FA	G	PT WILLMAR	$50/DAY		WITH PURCHASE OF PRODUCT
2	MD44	FA	G	PT WILLMAR	$1.25/AC		WITH PURCHASE OF PRODUCT
2	MD44	FA	G	FL WILLMAR		3.75	
2	MD44	FA	G	FL LOREL		3.25	WITH AVADEX
2	MD44	FA	G	FL LOREL		3.50	WITH PURCHASE OF PRODUCT
2	MD44	FA	G	AS TERRIGATOR		3.75	
2	MD48	FA	G	FL LOREL		3.00	
2	MD48	FA	G	AS PRASCO		6.25	
2	MD48	FA	L	PT BANDWAGON	$1.50/AC		WITH PURCHASE OF PRODUCT
2	MD48	FA	G	AS FRIGSTAD		7.00	DEEP BANDING

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REGION	COUNTY	OPERATION	PRODUCT FORM	TYPE OF APPLICATOR	RENTAL COST	CUSTOM COST ($/AC)	NOTES
2	MD48	FA	G	AS PRASCO	$2.50/AC		WITH PURCHASE OF PRODUCT
2	MD48	FA	G	PT WILLMAR	$0.75/AC		WITH PURCHASE OF PRODUCT
2	MD48	FA	L	PT BANDWAGON	$1/AC		WITH PURCHASE OF PRODUCT
2	SA3	FA	G	PT MOBILITY	$2/AC	3.00	
2	SA3	FA	L	PT MOBILITY	$2/AC	3.00	
2	SA3	FA	G	FL LOREL		3.50	WITH AVADEX
2	16	FA	G	PT BANDICATOR	$3/AC		WITH PURCHASE OF PRODUCT
2	16	FA	G,A	PT DOUBLE SHOOTER	$5/AC		WITH PURCHASE OF PRODUCT
2	16	FA	G	PT WILLMAR	$0.75/AC		WITH PURCHASE OF PRODUCT
2	16	FA	G,A	PT WILLMAR	1.50/AC		WITH PURCHASE OF PRODUCT
2	16	FA	G	TN WILLMAR		2.75	
2	16	FA	G	PT WILLMAR	$1/AC		WITH PURCHASE OF PRODUCT
2	16	FA	L	PT BANDWAGON	$1.25/AC		WITH PURCHASE OF PRODUCT
2	16	FA	G	FL LOREL OR WILLMAR		3.50	WITH PURCHASE OF PRODUCT
2	17	FA	G	FL TERRIGATOR		3.25	
2	17	FA	G	PT WILLMAR	$50/DAY		WITH PURCHASE OF PRODUCT
2	17	FA	L	PT BANDWAGON	$1/AC		WITH PURCHASE OF PRODUCT
2	17	FA	G	TN TYLER		3.25	
2	17	FA	G	PT WILLMAR	$0.50/AC		WITH PURCHASE OF PRODUCT
2	17	FA	G	PT MCGREGGOR	$1/AC		WITH PURCHASE OF PRODUCT
2	17	FA	L	FL TERRIGATOR		3.25	WITH PURCHASE OF PRODUCT
2	17	FA	G	PT WILLMAR	$0.75/AC		WITH PURCHASE OF PRODUCT
2	17	FA	L	FL TERRIGATOR		3.50	
2	17	FA	G	AS JOHN DEERE		7.00	

FERTILIZER APPLICATION 1990

REGION	COUNTY	OPERATION	PRODUCT FORM	TYPE OF APPLICATOR	RENTAL COST	CUSTOM COST ($/AC)	NOTES
2	17	FA	G	FL TERRIGATOR		3.25	WITH PURCHASE OF PRODUCT
2	17	FA	G	PT WILLMAR	$0.50/AC		WITH PURCHASE OF PRODUCT
2	17	FA	G	TN TYLER		3.00	
3	MD99	FA	G	PT WILLMAR	$5/TONNE		WITH PURCHASE OF PRODUCT
3	MD99	FA	G	PT WILLMAR	$8/TONNE		WITH PURCHASE OF PRODUCT
3	MD99	FA	G	FL WILLMAR		2.75	
3	MD99	FA	G	PT WILLMAR	$7/TONNE		WITH PURCHASE OF PRODUCT
3	MD99	FA	G	TN WILLMAR		3.00	
3	3	FA	G	PT WILLMAR	$0.75/AC		WITH PURCHASE OF PRODUCT
3	3	FA	G	PT WILLMAR		2.75	
3	3	FA	G	TN BARBER		3.00	
3	3	FA	G	PT TYLER	$2/AC		WITH PURCHASE OF PRODUCT
3	3	FA	G	PT WILLMAR	$7/TONNE		WITH PURCHASE OF PRODUCT
3	3	FA	G	TN BARBER		2.75	
3	6	FA	G	FL LOREL		3.25	
3	10	FA	G	FL TERRIGATOR		3.25	
3	10	FA	G	PT WILLMAR	$1/AC		WITH PURCHASE OF PRODUCT
3	10	FA	G	AS TERRIGATOR	$2.50/AC		WITH PURCHASE OF PRODUCT
3	14	FA	L	PT BANDWAGON	$1.50/AC		WITH PURCHASE OF PRODUCT
3	14	FA	G	TN BARBER		3.00	
3	14	FA	G	PT BARBER		3.00	WITH PURCHASE OF PRODUCT
3	14	FA	G	PT WILLMAR	$7/TONNE		WITH PURCHASE OF PRODUCT

FERTILIZER APPLICATION 1990

REGION	COUNTY	OPERATION	PRODUCT FORM	TYPE OF APPLICATOR	RENTAL COST	CUSTOM COST ($/AC)	NOTES
3	14	FA	G	TN BARBER		3.00	WITH HERBICIDE
3	14	FA	G	TN BARBER		3.25	WITH AVADEX
3	14	FA	G	PT WILLMAR	$8/TONNE		WITH PURCHASE OF PRODUCT
3	14	FA	G	TN BARBER		3.00	WITH PURCHASE OF PRODUCT
3	14	FA	G	TN BARBER		3.00	WITH HERBICIDE
3	14	FA	G	PT WILLMAR	$0.75/AC		WITH PURCHASE OF PRODUCT
3	14	FA	G	PT TYLER	$0.50/AC		WITH PURCHASE OF PRODUCT
3	18	FA	G	PT WILLMAR		3.00	
3	22	FA	G	TN WILLMAR		2.75	
3	22	FA	G	PT VALMAR	$6/TONNE		WITH PURCHASE OF PRODUCT
3	22	FA	G	PT WILLMAR		3.00	
3	22	FA	G	PT WILLMAR	$0.50/AC		WITH PURCHASE OF PRODUCT
3	22	FA	G	PT MOBILITY	$0.75/AC		WITH PURCHASE OF PRODUCT
3	22	FA	G	PT WILLMAR	$1.25/AC		
3	22	FA	G	TN BARBER		3.00	
3	23	FA	G	TN BARBER		3.25	
3	23	FA	G	PT WILLMAR	$1/AC		WITH PURCHASE OF PRODUCT
3	23	FA	A	PT MCGREGGOR	$30/DAY	2.75	WITH PURCHASE OF PRODUCT
3	23	FA	G	PT WILLMAR	$1.25/AC		WITH PURCHASE OF PRODUCT
3	23	FA	G	PT TYLER	$1/AC		WITH PURCHASE OF PRODUCT
3	23	FA	G	PT MOBILITY	$50/DAY	3.25	WITH PURCHASE OF PRODUCT
3	23	FA	G	PT TYLER	$6/TONNE		WITH PURCHASE OF PRODUCT
3	23	FA	G	TN BARBER		3.25	
3	23	FA	A	VALMAR ON CULT	$45/TONNE		WITH PURCHASE; DOUBLE SHOOTER

FERTILIZER APPLICATION 1990

REGION	COUNTY	OPERATION	PRODUCT FORM	TYPE OF APPLICATOR	RENTAL COST	CUSTOM COST ($/AC)	NOTES
3	23	FA	G	AS CONCORD		8.00	DEEP BANDING
3	23	FA	G	FL LOREL		3.00	
3	23	FA	G	FL WILLMAR		3.50	
3	23	FA	G	AS PRASCO		5.50	DEEP BANDING
3	23	FA	G	PT WILLMAR	$10/TONNE		WITH PURCHASE OF PRODUCT
3	23	FA	G	TN BARBER		3.00	WITH PURCHASE OF PRODUCT
3	23	FA	G	PT WILLMAR	$1.25/AC		WITH PURCHASE OF PRODUCT
3	23	FA	G	TN WILLMAR		3.25	
3	29	FA	G	PT TYLER	$5/TONNE		WITH PURCHASE OF PRODUCT
3	29	FA	L	FW PIPER PAWNEE		3.75	2 GALLONS WATER
3	29	FA	A	PT MCGREGGOR	$5.50/AC		WITH PURCHASE OF PRODUCT
3	29	FA	G	AS PRASCO		5.75	DEEP BANDING
3	29	FA	L	FW GRUMMAN		3.50	2 GALLONS WATER
3	29	FA	G	AS BOURGAULT		5.00	WITH PURCHASE OF PRODUCT
3	29	FA	G	PT PRASCO BANDIT		5.00	
3	29	FA	G	PT PRASCO BANDIT	$4.75/AC		WITH TRACTOR
3	29	FA	G	AS PRASCO		5.75	DEEP BANDING
3	29	FA	L	FW PIPER PAWNEE		5.25	5 GALLONS WATER
3	29	FA	G	TN TYLER		2.75	CROPLAND
3	29	FA	G	PT WILLMAR	$1/AC		WITH PURCHASE OF PRODUCT
3	29	FA	L	FW GRUMMAN		5.25	5 GALLONS WATER
3	29	FA	G	PT WILLMAR	$5/TONNE		WITH PURCHASE OF PRODUCT
4	MD52	FA	G	PT MOBILITY	$1.10/AC		WITH PURCHASE OF PRODUCT
4	MD52	FA	L	PT BANDWAGON	$1.25/AC		WITH PURCHASE OF PRODUCT

FERTILIZER APPLICATION 1990

REGION	COUNTY	OPERATION	PRODUCT FORM	TYPE OF APPLICATOR	RENTAL COST	CUSTOM COST ($/AC)	NOTES
4	MD61	FA	L	FL TERRIGATOR		3.75	
4	MD87	FA	L	FW CESSNA AG TRUCK		4.50	3 GALLONS WATER
4	MD87	FA	L	FW CESSNA AG TRUCK		4.25	2 GALLONS WATER
4	MD87	FA	L	FW CESSNA AG TRUCK		3.75	1 GALLON WATER
4	19	FA	G	AS JOHN DEERE		7.00	DEEP BANDING
4	19	FA	G	PT WILLMAR	$6/TONNE		WITH PURCHASE OF PRODUCT
4	19	FA	G	PT MOBILITY	9/TONNE		WITH PURCHASE OF PRODUCT
4	19	FA	G	FL WILLMAR		3.00	WITH PURCHASE OF PRODUCT
4	24	FA	G	PT TYLER BANDWAGON	$3/AC		WITH CULTIVATOR
4	24	FA	G	FL TERRIGATOR		3.25	
4	24	FA	L	FW CESSNA AG TRUCK		4.25	2 GALLONS WATER
4	24	FA	G	AS VALMAR ON CULT	$4/AC		W/AVADEX APPLICATOR
4	24	FA	L	FL TERRIGATOR		3.50	
4	24	FA	G	FL WILLMAR		3.00	
4	24	FA	G	FL WILLMAR		3.25	
4	24	FA	L	FW CESSNA AG TRUCK		4.75	3 GALLONS WATER
4	24	FA	L	PT BANDWAGON	$1/AC		
4	24	FA	L	FW CESSNA AG TRUCK		3.75	1 GALLON WATER
4	27	FA	G	PT MOBILITY	$0.75/AC		WITH PURCHASE OF PRODUCT
4	27	FA	G	AS VALMAR ON CULT	$3/AC		FOR DEEP BANDING
4	30	FA	G	PT WILLMAR	$6/TONNE		WITH PURCHASE OF PRODUCT
4	30	FA	G	PT TYLER BANDWAGON	$2/AC		WITH PURCHASE OF PRODUCT

FERTILIZER APPLICATION 1990

REGION	COUNTY	OPERATION	PRODUCT FORM	TYPE OF APPLICATOR	RENTAL COST	CUSTOM COST ($/AC)	NOTES
4	30	FA	G	PT SIMONSON		2.75	
5	MD90	FA	G	PT WILLMAR		2.75	
5	MD90	FA	G	FL WILLMAR		2.75	
5	MD90	FA	G	PT WILLMAR	$5.50/TONNE		WITH PURCHASE OF PRODUCT
5	MD90	FA	G	FL WILLMAR		3.25	
5	MD90	FA	G,A	PT BANDICATOR	$5/TONNE		WITH PURCHASE OF PRODUCT
5	MD90	FA	G	PT WILLMAR	$1/AC	2.75	WITH PURCHASE OF PRODUCT
5	MD90	FA	G	FL TERRIGATOR		3.00	
5	MD92	FA	G	FL WILLMAR		2.75	
5	MD92	FA	G	FL WILLMAR		3.50	
5	MD92	FA	G	PT WILLMAR		3.00	WITH PURCHASE OF PRODUCT
5	11	FA	G	PT WILLMAR	$5/TONNE		WITH PURCHASE OF PRODUCT
5	12	FA	L	FL TERRIGATOR		3.25	
5	12	FA	G,A	PT BANDICATOR	$2.50/AC		FOR DUAL BANDING
5	20	FA	G	PT WILLMAR		3.00	
5	20	FA	G	PT SIMONSON		3.00	
5	20	FA	G	PT WILLMAR	$50/DAY		WITH PURCHASE OF PRODUCT
5	20	FA	G	PT WILLMAR	$1.25/AC		
5	20	FA	G	FL WILLMAR	$2.75/AC	7.50	WITH PURCHASE OF PRODUCT
5	25	FA	L	FL TERRIGATOR		3.00	WITH PURCHASE OF PRODUCT
5	25	FA	G	FL SIMONSON		3.00	WITH AVADEX

FERTILIZER APPLICATION 1990

REGION	COUNTY	OPERATION	PRODUCT FORM	TYPE OF APPLICATOR	RENTAL COST	CUSTOM COST ($/AC)	NOTES
5	25	FA	G	PT WILLMAR	$45/DAY	3.00	WITH PURCHASE OF PRODUCT
5	25	FA	G	PT WILLMAR	$35/DAY		
5	31	FA	G	FL LOREL		3.25	
5	31	FA	G	PT TYLER	$6/TONNE		WITH PURCHASE OF PRODUCT
6	ID21	FA	L	FL TERRIGATOR		3.00	
6	ID23	FA	G	FL WILLMAR		3.75	
6	ND133	FA	G	PT WILLMAR	$65/DAY		WITH PURCHASE OF PRODUCT
6	ND133	FA	G	PT WILLMAR	$45/DAY		WITH PURCHASE OF PRODUCT
6	ND135	FA	G	FL WILLMAR		3.50	WITH AVADEX
6	ND136	FA	G	PT MOBILITY	$1.25/AC		WITH PURCHASE OF PRODUCT
6	ND136	FA	G	PT WILLMAR	$1/AC		WITH PURCHASE OF PRODUCT
6	1	FA	G	AS FRIGSTAD		6.50	WITH PURCHASE OF PRODUCT
6	1	FA	L	PT BANDWAGON	$1.50/AC		WITH PURCHASE OF PRODUCT
6	1	FA	G	FL WILLMAR		3.00	
6	1	FA	G	PT WILLMAR	$1.25/AC		WITH PURCHASE OF PRODUCT
6	1	FA	G	AS CONCORD		7.00	DEEP BANDING
6	1	FA	L	FL TERRIGATOR		3.50	
6	1	FA	G	PT WILLMAR	$50/DAY		WITH PURCHASE OF PRODUCT
6	1	FA	L	PT BANDWAGON	$1.50/AC		WITH PURCHASE OF PRODUCT
6	1	FA	G	AS JOHN DEERE		6.50	DEEP BANDING

HERBICIDE APPLICATION 1990

REGION	COUNTY	OPERATION	PRODUCT FORM	TYPE OF APPLICATOR	RENTAL COST	CUSTOM COST ($/AC)	NOTES
1	ND6	HA	L	FL TERRIGATOR		2.50	
1	ND6	HA	L	SP SPRAY COUP		2.50	
1	ND9	HA	L	TH HARDY		2.50	
1	ND9	HA	L	TH VALMAR		2.25	
1	ND14	HA	L	FW PIPER PAWNEE		3.00	1 GALLON WATER
1	ND14	HA	L	FW PIPER PAWNEE		3.75	2 GALLONS WATER
1	ND14	HA	L	FW PIPER PAWNEE		3.50	2 GALLONS WATER
1	ND14	HA	L	TH LOREL EASY RIDER		3.50	RATES VARIES PER ACREAGE
1	ND14	HA	L	FW PIPER		3.75	2 GALLONS WATER
1	ND14	HA	L	FW PIPER		4.00	3 GALLONS WATER
1	ND14	HA	L	FW PIPER PAWNEE		3.75	3 GALLONS WATER
1	ND14	HA	L	FW PIPER		3.00	1 GALLON WATER
1	ND14	HA	L	FW GRUMMAN AG-CAT		3.50	2 GALLONS WATER
1	ND14	HA	L	FW PIPER PAWNEE		3.00	1 GALLON WATER
1	ND14	HA	L	FW PIPER PAWNEE		4.00	3 GALLONS WATER
1	ND14	HA	L	FW GRUMMAN AG-CAT		3.00	1 GALLON WATER
1	ND26	HA	L	TH HARDY		2.50	
1	ND26	HA	G	PT VALMAR	$1/AC		WITH PURCHASE OF PRODUCT
1	ND26	HA	G	PT NODET	$1/AC		WITH PURCHASE OF PRODUCT
1	ND26	HA	L	TH HARDY		2.50	
1	ND26	HA	L	PT GREEN DROP BANDWAGON		2.75	10 GALLONS WATER
1	ND26	HA	G	PT NODET	$1.25/AC		WITH PURCHASE OF PRODUCT
1	ND26	HA	L	TH HARDY		3.00	

HERBICIDE APPLICATION 1990

REGION	COUNTY	OPERATION	PRODUCT FORM	TYPE OF APPLICATOR	RENTAL COST	CUSTOM COST ($/AC)	NOTES
1	2	HA	G	PT LOREL EASY RIDER	$8/DAY	3.00	
1	4	HA	L	TH TERRIGATOR		4.00	
1	5	HA	L	FL TYLER		4.00	
1	5	HA	G	PT HODET	$1.25/AC		WITH PURCHASE OF PRODUCT
1	8	HA	G	PT VALMAR	$1/AC		WITH PURCHASE OF PRODUCT
1	8	HA	G	SP SPRAY COUPE		2.75	
1	26	HA	L	FW PIPER PAWNEE		5.50	5 GALLONS WATER
1	26	HA	G	PT VALMAR	$1/AC		WITH PURCHASE OF PRODUCT
1	26	HA	L	FW PIPER PAWNEE		3.00	1 GALLON WATER
1	26	HA	L	FW PIPER PAWNEE		3.75	2 GALLONS WATER
1	26	HA	G	PT HODET	$1/AC		WITH PURCHASE OF PRODUCT
2	CALGARY	HA	G	PT VALMAR	$1.25/AC		WITH PURCHASE OF PRODUCT
2	CALGARY	HA	G	PT LOREL		3.50	
2	ID7	HA	L	FW GRUMMAN AG-CAT		3.50	2 GALLONS WATER
2	ID7	HA	L	FW GRUMMAN		3.25	1 GALLON WATER
2	ID7	HA	L	FW PAWNEE		3.75	1 GALLON WATER
2	ID7	HA	L	FW PAWNEE		4.25	2 GALLONS WATER
2	ID7	HA	L	FW GRUMMAN AG-CAT		3.25	1 GALLON WATER
2	ID7	HA	L	FW GRUMMAN		3.75	2 GALLONS WATER
2	ID7	HA	G	PT VALMAR	$1/AC		WITH PURCHASE OF PRODUCT
2	ID7	HA	G	FW CESSNA		3.50	

HERBICIDE APPLICATION 1990

REGION	COUNTY	OPERATION	PRODUCT FORM	TYPE OF APPLICATOR	RENTAL COST	CUSTOM COST ($/AC)	NOTES
2	MD31	HA		PT VERTEC		2.75	
2	MD31	HA	G	PT VALMAR	$1.25/AC		WITH PURCHASE OF PRODUCT
2	MD31	HA	L	PT VERSATILE		2.25	
2	MD31	HA	L	FW GRUMMAN		3.50	2 GALLONS WATER
2	MD31	HA	L	FL TERRIGATOR		2.75	
2	MD31	HA	L	FW CESSNA AG-WAGON		2.90	1 GALLON WATER
2	MD31	HA	L	TM JOHN DEERE		3.00	
2	MD31	HA	L	FW GRUMMAN		4.00	3 GALLONS WATER
2	MD31	HA	L	FW GRUMMAN		3.00	1 GALLON WATER
2	MD31	HA	G	TM HARDY		2.50	
2	MD31	HA	L	TM HARDY		3.50	
2	MD31	HA	L	FL LOREL		3.75	WITH FERTILIZER
2	MD34	HA	G	PT NODET	$0.75/AC		WITH PURCHASE OF PRODUCT
2	MD34	HA	G	PT VALMAR	$1.25/AC		WITH PURCHASE OF PRODUCT
2	MD44	HA	L	FW GRUMMAN AG-CAT		3.00	1 GALLON WATER
2	MD44	HA	G	TM VALMAR		2.25	WITH PURCHASE OF PRODUCT
2	MD44	HA	G	PT VALMAR	$1.25/AC		WITH PURCHASE OF PRODUCT
2	MD44	HA	G	TM VALMAR		2.50	
2	MD44	HA	G	PT VALMAR	$1/AC		WITH PURCHASE OF PRODUCT
2	MD44	HA	L	FW GRUMMAN AG-CAT		3.50	2 GALLONS WATER
2	MD44	HA	G	FL LOREL	$3/AC		WITH PURCHASE OF PRODUCT
2	MD44	HA	G	FW GRUMMAN AG-CAT		3.25	
2	MD48	HA	G	PT NODET	$0.75/AC		WITH PURCHASE OF PRODUCT

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REGION	COUNTY	OPERATION	PRODUCT FORM	TYPE OF APPLICATOR	RENTAL COST	CUSTOM COST ($/AC)	NOTES
2	MD48	HA	L	PT BANDWAGON	$1/AC		WITH PURCHASE OF PRODUCT
2	MD48	HA	L	FL TYLER		3.25	
2	MD48	HA	G	PT VALMAR	$0.75/AC		WITH PURCHASE OF PRODUCT
2	MD48	HA	L	PT BANDWAGON	$0.75/AC		WITH PURCHASE OF PRODUCT
2	MD48	HA	L	TN HARDY		3.00	
2	MD48	HA	G	PT VALMAR	$1/AC		
2	MD48	HA	G	PT VALMAR	$1.25/AC		WITH PURCHASE OF PRODUCT
2	SA3	HA	L	FW CESSNA		3.75	2 GALLONS WATER
2	SA3	HA	L	FW CESSNA		3.00	1 GALLON WATER
2	SA3	HA	L	FW CESSNA		4.25	3 GALLONS WATER
2	SA3	HA	L	FL TERRIGATOR		3.00	
2	SA3	HA	L	FW CESSNA		5.00	5 GALLONS WATER
2	SA3	HA	G	PT VALMAR	$2.50/AC		
2	16	HA	G	PT VALMAR	$1/AC		WITH PURCHASE OF PRODUCT
2	16	HA	L	TN JOHN DEERE		3.00	
2	16	HA	L	FL TERRIGATOR		3.25	
2	16	HA	G	PT VALMAR	$1/AC		WITH PURCHASE OF PRODUCT
2	17	HA	L	FL TERRIGATOR		3.00	
2	17	HA	G	PT VALMAR	$1.25/AC		WITH PURCHASE OF PRODUCT
2	17	HA	L	FL TERRIGATOR		3.25	
2	17	HA	G	FL TERRIGATOR		3.00	
2	17	HA	G	PT VALMAR	$0.75/AC		WITH PURCHASE OF PRODUCT
2	17	HA	L	TN HARDY		3.00	

HERBICIDE APPLICATION 1990

REGION	COUNTY	OPERATION	PRODUCT FORM	TYPE OF APPLICATOR	RENTAL COST	CUSTOM COST ($/AC)	NOTES
3	6	HA	G	PT MODET	$1/AC		WITH PURCHASE OF PRODUCT
3	10	HA	G	PT VALMAR	$0.75/AC		WITH PURCHASE OF PRODUCT
3	10	HA	G	PT MODET	$1/AC		WITH PURCHASE OF PRODUCT
3	14	HA	G	PT MODET	$0.75/AC		
3	14	HA	G	PT MODET	$1/AC		WITH PURCHASE OF PRODUCT
3	14	HA	G	PT MODET	$0.75/AC		WITH PURCHASE OF PRODUCT
3	22	HA	L	FW PIPER PAWNEE		4.25	4 GALLONS WATER
3	22	HA	L	FW PIPER PAWNEE		3.50	2 GALLONS WATER
3	22	HA	L	FW PIPER PAWNEE		3.00	1 GALLON WATER
3	22	HA	G	PT MODET		2.75	
3	23	HA	L	TN HARDY		3.00	
3	23	HA	G	PT VALMAR	$1.25/AC		WITH PURCHASE OF PRODUCT
3	23	HA	G	TN VALMAR		2.25	
3	23	HA	L	FL TYLER	$2/AC		WITH PURCHASE OF PRODUCT
3	23	HA	G	PT VALMAR	$1/AC		WITH PURCHASE OF PRODUCT
3	23	HA	G	FL TYLER		2.75	
3	29	HA	L	FW GRUMMAN		3.50	2 GALLONS WATER
3	29	HA	L	FW AYRES TURBO THRUSH		3.75	2 GALLONS WATER
3	29	HA	L	FW AYRES TURBO THRUSH		3.10	1 GALLON WATER
3	29	HA	L	FL SPRAY COUPE		3.00	
3	29	HA	G	PT VALMAR	$0.75/AC		WITH PURCHASE OF PRODUCT
3	29	HA	L	FW PIPER PAWNEE		3.50	2 GALLONS WATER

HERBICIDE APPLICATION 1990

REGION	COUNTY	OPERATION	PRODUCT FORM	TYPE OF APPLICATOR	RENTAL COST	CUSTOM COST ($/AC)	NOTES
3	29	HA	L	FW PIPER PAWNEE		5.00	5 GALLONS WATER
3	29	HA	L	FW AYRES TURBO THRUSH		4.25	3 GALLONS WATER
3	29	HA	L	FW AYRES TURBO THRUSH		3.75	2 GALLONS WATER
3	29	HA	L	FW GRUMMAN		5.25	5 GALLONS WATER
4	MD52	HA	G	PT MODET	$0.75/AC		WITH PURCHASE OF PRODUCT
4	MD52	HA	G	PT MODET	$1/AC		WITH PURCHASE OF PRODUCT
4	9	HA	G	AS VALMAR ON CULT	$2/AC		
4	19	HA	G	PT MODET	$1/AC		WITH PURCHASE OF PRODUCT
4	19	HA	L	TH WILLMAR		3.00	
4	24	HA	L	FW GRUMMAN AG-CAT		3.75	2 GALLONS WATER
4	24	HA	L	FW GRUMMAN AG-CAT		3.25	1 GALLON WATER
4	24	HA	L	FW GRUMMAN AG-CAT		4.50	3 GALLONS WATER
4	24	HA	L	FW GRUMMAN AG-CAT		4.25	3 GALLONS WATER
4	24	HA	L	FW GRUMMAN AG-CAT		3.85	2 GALLONS WATER
4	24	HA	L	FW GRUMMAN AG-CAT		3.50	1 GALLON WATER
4	27	HA	L	PT GROUND SPRAYER		2.25	
4	27	HA	L	SP SPRAY COUP		2.75	
5	ID14	HA	L	PT SPRAY COUP		3.00	
5	MD90	HA	G	PT MODET	$0.75/AC		WITH PURCHASE OF PRODUCT
5	MD90	HA	G	PT VALMAR	$1/AC		WITH PURCHASE OF PRODUCT

HERBICIDE APPLICATION 1990

REGION	COUNTY	OPERATION	PRODUCT FORM	TYPE OF APPLICATOR	RENTAL COST	CUSTO COST ($,)	NOTES
5	MD92	HA	L	FL TERRIGATOR		2.75	
5	7	HA	L	FL TERRIGATOR		3.00	
5	11	HA	L	FW CESSNA AG-TRUCK		3.00	1 GALLON WATER
5	11	HA	L	FW CESSNA AG-TRUCK		3.75	2 GALLONS WATER
5	20	HA	G	PT NODET			WITH PURCHASE OF PRODUCT
5	20	HA	G	PT VALMAR	$1/AC		WITH PURCHASE OF PRODUCT
5	25	HA	L	TM HARDY		3.00	WITH PURCHASE OF PRODUCT
5	25	HA	L	TM VALMAR		2.00	WITH PURCHASE OF PRODUCT
5	25	HA	L	FL TERRIGATOR		3.25	WITH PURCHASE OF PRODUCT
5	31	HA	L	FW GRUMMAN AG-CAT		3.25	1 GALLON WATER
5	31	HA	L	FW AG-WAGON		5.00	5 GALLONS WATER
5	31	HA	L	FW AG-WAGON		4.35	2 GALLONS WATER
5	31	HA	L	FW GRUMMAN AG-CAT		4.50	3 GALLONS WATER
5	31	HA	L	FW AG-WAGON		3.60	1 GALLON WATER
5	31	HA	L	FW GRUMMAN AG-CAT		4.00	2 GALLONS WATER
6	MD130	HA	L	PT HARDY		2.75	
6	MD130	HA	L	SP SPRAY COUP		2.75	
6	MD133	HA	G	PT NODET	$1.25/AC		WITH PURCHASE OF PRODUCT